

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	529	ATP sulfurylase\$1 or sulfate adj (adenylyltransferase\$1 or (adenylyl or adenylate) adj transferase\$1)	US-PGPUB; USPAT	ADJ	OFF	2008/02/04 08:34
L2	1057	ATP near4 (regenerat\$ or replenish\$ or recycl\$)	US-PGPUB; USPAT	ADJ	OFF	2008/02/04 08:35
(L3)	11	1 and 2	US-PGPUB; USPAT	ADJ	OFF	2008/02/04 08:35
L4	11398	(pyrophosphate or phosphate) near4 (deplet\$ or reduc\$ or eliminat\$ or decreas\$)	US-PGPUB; USPAT	ADJ	OFF	2008/02/04 08:36
(L5)	80	4 and 1	US-PGPUB; USPAT	ADJ	OFF	2008/02/04 08:36
L6	250	4 same (protein synth\$ or transcription)	US-PGPUB; USPAT	ADJ	OFF	2008/02/04 08:42
(L7)	18	4 near10 (protein synth\$ or transcription)	US-PGPUB; USPAT	ADJ	OFF	2008/02/04 08:42

8/2/02 (1026) date = 7/25/02)

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:55:05 ON 04 FEB 2008

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.84

0.84

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODASE, BIOTECHNO, WPIDS' ENTERED AT 08:57:23 ON 04 FEB 2008  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s atp sulfurylase# or sulfate(w)(adenylyltransferase# or (adenylyl or adenylylate)(w)transferase#)

FILE 'MEDLINE'

110825 ATP

223 SULFURYLASE#

198 ATP SULFURYLASE#

(ATP(W)SULFURYLASE#)

117924 SULFATE

1531 ADENYLYLTRANSFERASE#

9236 ADENYLYL

34935 ADENYLATE

63466 TRANSFERASE#

259 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRANSFERASE#)

L1 318 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRANSFERASE#)

FILE 'SCISEARCH'

93016 ATP

427 SULFURYLASE#

386 ATP SULFURYLASE#

(ATP(W)SULFURYLASE#)

122907 SULFATE

276 ADENYLYLTRANSFERASE#

11016 ADENYLYL

29594 ADENYLATE

51265 TRANSFERASE#

9 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRANSFERASE#)

L2 390 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRANSFERASE#)

FILE 'LIFESCI'

37283 "ATP"

125 SULFURYLASE#

116 ATP SULFURYLASE#

("ATP"(W)SULFURYLASE#)

28957 SULFATE

322 ADENYLYLTRANSFERASE#

2981 ADENYLYL

10290 ADENYLATE

16527 TRANSFERASE#

44 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRANSFERASE#)

L3 127 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRANSFERASE#)

FILE 'BIOTECHDS'

4397 ATP

56 SULFURYLASE#

47 ATP SULFURYLASE#  
 (ATP (W) SULFURYLASE#)  
 15210 SULFATE  
 76 ADENYLYLTRANSFERASE#  
 130 ADENYLYL  
 543 ADENYLATE  
 4703 TRANSFERASE#  
 16 SULFATE (W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRA  
 NSFERASE#)  
 L4 56 ATP SULFURYLASE# OR SULFATE (W) (ADENYLYLTRANSFERASE# OR (ADENYLYL  
 OR ADENYLATE) (W) TRANSFERASE#)

FILE 'BIOSIS'

163308 ATP  
 554 SULFURYLASE#  
 514 ATP SULFURYLASE#  
 (ATP (W) SULFURYLASE#)  
 169923 SULFATE  
 383 ADENYLYLTRANSFERASE#  
 11300 ADENYLYL  
 38415 ADENYLATE  
 84527 TRANSFERASE#  
 42 SULFATE (W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRA  
 NSFERASE#)  
 L5 535 ATP SULFURYLASE# OR SULFATE (W) (ADENYLYLTRANSFERASE# OR (ADENYLYL  
 OR ADENYLATE) (W) TRANSFERASE#)

FILE 'EMBASE'

94835 "ATP"  
 180 SULFURYLASE#  
 151 ATP SULFURYLASE#  
 ("ATP" (W) SULFURYLASE#)  
 137983 SULFATE  
 1104 ADENYLYLTRANSFERASE#  
 7845 ADENYLYL  
 34483 ADENYLATE  
 47281 TRANSFERASE#  
 196 SULFATE (W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRA  
 NSFERASE#)  
 L6 227 ATP SULFURYLASE# OR SULFATE (W) (ADENYLYLTRANSFERASE# OR (ADENYLYL  
 OR ADENYLATE) (W) TRANSFERASE#)

FILE 'HCAPLUS'

167072 ATP  
 656 SULFURYLASE#  
 613 ATP SULFURYLASE#  
 (ATP (W) SULFURYLASE#)  
 546749 SULFATE  
 960 ADENYLYLTRANSFERASE#  
 9969 ADENYLYL  
 40447 ADENYLATE  
 60523 TRANSFERASE#  
 116 SULFATE (W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRA  
 NSFERASE#)  
 L7 680 ATP SULFURYLASE# OR SULFATE (W) (ADENYLYLTRANSFERASE# OR (ADENYLYL  
 OR ADENYLATE) (W) TRANSFERASE#)

FILE 'NTIS'

1339 ATP  
 1 SULFURYLASE#  
 1 ATP SULFURYLASE#  
 (ATP (W) SULFURYLASE#)  
 6787 SULFATE  
 1 ADENYLYLTRANSFERASE#  
 26 ADENYLYL

143 ADENYLATE  
 1494 TRANSFERASE#  
 1 SULFATE(W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRANSFERASE#)  
 L8 1 ATP SULFURYLASE# OR SULFATE(W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRANSFERASE#)

FILE 'ESBIOBASE'

45317 ATP  
 158 SULFURYLASE#  
 146 ATP SULFURYLASE#  
 (ATP(W) SULFURYLASE#)  
 31059 SULFATE  
 147 ADENYLYLTRANSFERASE#  
 5288 ADENYLYL  
 6111 ADENYLATE  
 39960 TRANSFERASE#  
 6 SULFATE(W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRANSFERASE#)  
 L9 149 ATP SULFURYLASE# OR SULFATE(W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRANSFERASE#)

FILE 'BIOTECHNO'

31786 ATP  
 116 SULFURYLASE#  
 100 ATP SULFURYLASE#  
 (ATP(W) SULFURYLASE#)  
 33569 SULFATE  
 610 ADENYLYLTRANSFERASE#  
 3044 ADENYLYL  
 9740 ADENYLATE  
 16723 TRANSFERASE#  
 109 SULFATE(W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRANSFERASE#)  
 L10 135 ATP SULFURYLASE# OR SULFATE(W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRANSFERASE#)

FILE 'WPIDS'

5528 ATP  
 60 SULFURYLASE#  
 42 ATP SULFURYLASE#  
 (ATP(W) SULFURYLASE#)  
 61754 SULFATE  
 26 ADENYLYLTRANSFERASE#  
 264 ADENYLYL  
 813 ADENYLATE  
 7874 TRANSFERASE#  
 5 SULFATE(W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRANSFERASE#)  
 L11 46 ATP SULFURYLASE# OR SULFATE(W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRANSFERASE#)

TOTAL FOR ALL FILES

L12 2664 ATP SULFURYLASE# OR SULFATE(W) (ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE) (W) TRANSFERASE#)

=> s atp(10a) (regenerat? or replenish? or recycl?)

FILE 'MEDLINE'

110825 ATP  
 86551 REGENERAT?  
 3963 REPLENISH?  
 14693 RECYCL?  
 L13 877 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'SCISEARCH'

93016 ATP  
106792 REGENERAT?  
6278 REPLENISH?  
42985 RECYCL?  
L14 648 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'LIFESCI'

37283 ATP  
26628 REGENERAT?  
1508 REPLENISH?  
7041 RECYCL?  
L15 265 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'BIOTECHDS'

4397 ATP  
19196 REGENERAT?  
311 REPLENISH?  
4399 RECYCL?  
L16 174 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'BIOSIS'

163308 ATP  
119658 REGENERAT?  
9137 REPLENISH?  
23215 RECYCL?  
L17 1222 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'EMBASE'

94835 ATP  
67467 REGENERAT?  
3524 REPLENISH?  
22211 RECYCL?  
L18 785 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'HCAPLUS'

167072 ATP  
196266 REGENERAT?  
13129 REPLENISH?  
193019 RECYCL?  
L19 1571 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'NTIS'

1339 ATP  
8375 REGENERAT?  
1278 REPLENISH?  
13407 RECYCL?  
L20 15 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'ESBIOBASE'

45317 ATP  
44647 REGENERAT?  
2311 REPLENISH?  
14055 RECYCL?  
L21 344 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'BIOTECHNO'

31786 ATP  
14446 REGENERAT?  
839 REPLENISH?  
7258 RECYCL?  
L22 299 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'WPIDS'

5528 ATP  
110122 REGENERAT?

19335 REPLENISH?  
111535 RECYCL?  
L23 78 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

TOTAL FOR ALL FILES  
L24 6278 ATP(10A) (REGENERAT? OR REPLENISH? OR RECYCL?)

=> s 112 and 124  
FILE 'MEDLINE'  
L25 3 L1 AND L13

FILE 'SCISEARCH'  
L26 2 L2 AND L14

FILE 'LIFESCI'  
L27 0 L3 AND L15

FILE 'BIOTECHDS'  
L28 6 L4 AND L16

FILE 'BIOSIS'  
L29 3 L5 AND L17

FILE 'EMBASE'  
L30 2 L6 AND L18

FILE 'HCAPLUS'  
L31 12 L7 AND L19

FILE 'NTIS'  
L32 0 L8 AND L20

FILE 'ESBIOBASE'  
L33 2 L9 AND L21

FILE 'BIOTECHNO'  
L34 1 L10 AND L22

FILE 'WPIDS'  
L35 5 L11 AND L23

TOTAL FOR ALL FILES  
L36 36 L12 AND L24

=> s (pyrophosphate or phosphate) (10a) (reduc? or deplet? or eliminat? or decreas?)  
FILE 'MEDLINE'

12643 PYROPHOSPHATE  
158291 PHOSPHATE  
1458771 REDUC?  
105092 DEPLET?  
168968 ELIMINAT?  
1139211 DECREAS?  
L37 12530 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
OR DECREAS?)

FILE 'SCISEARCH'  
10872 PYROPHOSPHATE  
175449 PHOSPHATE  
1731786 REDUC?  
130203 DEPLET?  
193836 ELIMINAT?  
1206706 DECREAS?  
L38 10417 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
OR DECREAS?)

FILE 'LIFESCI'

2693 PYROPHOSPHATE  
 46271 PHOSPHATE  
 373518 REDUC?  
 39678 DEPLET?  
 43724 ELIMINAT?  
 281257 DECREAS?  
 L39 4075 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
 OR DECREAS?)

FILE 'BIOTECHDS'

757 PYROPHOSPHATE  
 22286 PHOSPHATE  
 62010 REDUC?  
 2736 DEPLET?  
 9051 ELIMINAT?  
 30017 DECREAS?  
 L40 1014 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
 OR DECREAS?)

FILE 'BIOSIS'

13777 PYROPHOSPHATE  
 251584 PHOSPHATE  
 1585769 REDUC?  
 133802 DEPLET?  
 183302 ELIMINAT?  
 1359336 DECREAS?  
 L41 18468 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
 OR DECREAS?)

FILE 'EMBASE'

10190 PYROPHOSPHATE  
 196794 PHOSPHATE  
 1388178 REDUC?  
 102953 DEPLET?  
 172267 ELIMINAT?  
 1060375 DECREAS?  
 L42 30002 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
 OR DECREAS?)

FILE 'HCAPLUS'

41787 PYROPHOSPHATE  
 588312 PHOSPHATE  
 2324858 REDUC?  
 970261 REDN  
 2852632 REDUC?  
 (REDUC? OR REDN)  
 176414 DEPLET?  
 393736 ELIMINAT?  
 2462388 DECREAS?  
 L43 33504 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
 OR DECREAS?)

FILE 'NTIS'

249 PYROPHOSPHATE  
 6576 PHOSPHATE  
 190161 REDUC?  
 8222 DEPLET?  
 30881 ELIMINAT?  
 54081 DECREAS?  
 L44 381 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
 OR DECREAS?)

FILE 'ESBIOBASE'

2918 PYROPHOSPHATE

56486 PHOSPHATE  
579221 REDUC?  
51038 DEPLET?  
54973 ELIMINAT?  
451321 DECREAS?  
L45 5323 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
OR DECREAS?)

FILE 'BIOTECHNO'

2405 PYROPHOSPHATE  
51707 PHOSPHATE  
232937 REDUC?  
25560 DEPLET?  
29224 ELIMINAT?  
171676 DECREAS?  
L46 7909 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
OR DECREAS?)

FILE 'WPIDS'

7020 PYROPHOSPHATE  
130206 PHOSPHATE  
2614927 REDUC?  
63342 REDN  
2641728 REDUC?  
(REDUC? OR REDN)  
17297 DEPLET?  
581156 ELIMINAT?  
288987 DECREAS?  
L47 3911 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
OR DECREAS?)

TOTAL FOR ALL FILES

L48 127534 (PYROPHOSPHATE OR PHOSPHATE) (10A) (REDUC? OR DEPLET? OR ELIMINAT?  
OR DECREAS?)

=> s 112 and 148

FILE 'MEDLINE'

L49 5 L1 AND L37

FILE 'SCISEARCH'

L50 2 L2 AND L38

FILE 'LIFESCI'

L51 3 L3 AND L39

FILE 'BIOTECHDS'

L52 6 L4 AND L40

FILE 'BIOSIS'

L53 10 L5 AND L41

FILE 'EMBASE'

L54 7 L6 AND L42

FILE 'HCAPLUS'

L55 16 L7 AND L43

FILE 'NTIS'

L56 0 L8 AND L44

FILE 'ESBIOBASE'

L57 2 L9 AND L45

FILE 'BIOTECHNO'

L58 5 L10 AND L46



FILE 'WPIDS'  
L59 5 L11 AND L47

TOTAL FOR ALL FILES  
L60 61 L12 AND L48

=> s l48(15a)(protein synth? or transcription)

FILE 'MEDLINE'  
1756065 PROTEIN  
782019 SYNTH?  
57844 PROTEIN SYNTH?  
(PROTEIN(W)SYNTH?)  
313808 TRANSCRIPTION  
L61 53 L37(15A)(PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'SCISEARCH'  
1472042 PROTEIN  
1304332 SYNTH?  
48770 PROTEIN SYNTH?  
(PROTEIN(W)SYNTH?)  
251248 TRANSCRIPTION  
L62 43 L38(15A)(PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'LIFESCI'  
591472 "PROTEIN"  
226935 SYNTH?  
18836 PROTEIN SYNTH?  
("PROTEIN"(W)SYNTH?)  
138446 TRANSCRIPTION  
L63 40 L39(15A)(PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'BIOTECHDS'  
169853 PROTEIN  
58960 SYNTH?  
1850 PROTEIN SYNTH?  
(PROTEIN(W)SYNTH?)  
23188 TRANSCRIPTION  
L64 9 L40(15A)(PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'BIOSIS'  
1810979 PROTEIN  
1022280 SYNTH?  
84614 PROTEIN SYNTH?  
(PROTEIN(W)SYNTH?)  
268988 TRANSCRIPTION  
L65 74 L41(15A)(PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'EMBASE'  
1731947 "PROTEIN"  
866642 SYNTH?  
93320 PROTEIN SYNTH?  
("PROTEIN"(W)SYNTH?)  
312529 TRANSCRIPTION  
L66 49 L42(15A)(PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'HCAPLUS'  
2108584 PROTEIN  
2357732 SYNTH?  
79899 PROTEIN SYNTH?  
(PROTEIN(W)SYNTH?)  
378216 TRANSCRIPTION  
L67 92 L43(15A)(PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'NTIS'

14704 PROTEIN  
61992 SYNTH?  
676 PROTEIN SYNTH?  
(PROTEIN(W)SYNTH?)  
2346 TRANSCRIPTION  
L68 2 L44(15A) (PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'ESBIOBASE'  
753728 PROTEIN  
318335 SYNTH?  
45221 PROTEIN SYNTH?  
(PROTEIN(W)SYNTH?)  
148299 TRANSCRIPTION  
L69 41 L45(15A) (PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'BIOTECHNO'  
623255 PROTEIN  
228521 SYNTH?  
33016 PROTEIN SYNTH?  
(PROTEIN(W)SYNTH?)  
160885 TRANSCRIPTION  
L70 36 L46(15A) (PROTEIN SYNTH? OR TRANSCRIPTION)

FILE 'WPIDS'  
172619 PROTEIN  
413574 SYNTH?  
1863 PROTEIN SYNTH?  
(PROTEIN(W)SYNTH?)  
20170 TRANSCRIPTION  
L71 11 L47(15A) (PROTEIN SYNTH? OR TRANSCRIPTION)

TOTAL FOR ALL FILES  
L72 450 L48(15A) (PROTEIN SYNTH? OR TRANSCRIPTION)

=> s (136 or 160 or 172) not 2003-2008/py

FILE 'MEDLINE'  
3209668 2003-2008/PY  
(20030000-20089999/PY)  
L73 46 (L25 OR L49 OR L61) NOT 2003-2008/PY

FILE 'SCISEARCH'  
5892930 2003-2008/PY  
(20030000-20089999/PY)  
L74 30 (L26 OR L50 OR L62) NOT 2003-2008/PY

FILE 'LIFESCI'  
674897 2003-2008/PY  
L75 33 (L27 OR L51 OR L63) NOT 2003-2008/PY

FILE 'BIOTECHDS'  
132739 2003-2008/PY  
L76 7 (L28 OR L52 OR L64) NOT 2003-2008/PY

FILE 'BIOSIS'  
2814915 2003-2008/PY  
L77 74 (L29 OR L53 OR L65) NOT 2003-2008/PY

FILE 'EMBASE'  
2822712 2003-2008/PY  
L78 42 (L30 OR L54 OR L66) NOT 2003-2008/PY

FILE 'HCAPLUS'  
6316895 2003-2008/PY  
L79 82 (L31 OR L55 OR L67) NOT 2003-2008/PY

FILE 'NTIS'  
81636 2003-2008/PY  
L80 2 (L32 OR L56 OR L68) NOT 2003-2008/PY

FILE 'ESBIOBASE'  
1640742 2003-2008/PY  
L81 29 (L33 OR L57 OR L69) NOT 2003-2008/PY

FILE 'BIOTECHNO'  
122467 2003-2008/PY  
L82 41 (L34 OR L58 OR L70) NOT 2003-2008/PY

FILE 'WPIDS'  
5220668 2003-2008/PY  
L83 2 (L35 OR L59 OR L71) NOT 2003-2008/PY

TOTAL FOR ALL FILES  
L84 388 (L36 OR L60 OR L72) NOT 2003-2008/PY

=> dup rem l84  
PROCESSING COMPLETED FOR L84  
L85 161 DUP REM L84 (227 DUPLICATES REMOVED)

=> d tot

L85 ANSWER 1 OF 161 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN  
TI Manufacturing 3'-phosphoadenosine 5'-phosphosulfate involves using supply  
and regenerating system comprising adenosine 5'-monophosphoric acid,  
polyphosphoric acid, polyphosphoric acid kinase and adenylate kinase;  
using adenosine-5'-triphosphoric-acid-sulfurylase,  
adenylylsulfate-kinase and pyrophosphotase  
AN 2002-17396 BIOTECHDS  
PI JP 2002078498 19 Mar 2002

L85 ANSWER 2 OF 161 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN  
TI Novel mycobacterial sulfation pathway polypeptide useful in in vitro  
cell-free assay for identifying agent that reduces the activity of the  
polypeptide;  
recombinant protein production and its encoding gene useful for  
bacterium infection gene therapy  
AU BERTOZZI C; WILLIAMS S J; MOUGOUS J  
AN 2003-07476 BIOTECHDS  
PI WO 2002086067 31 Oct 2002

L85 ANSWER 3 OF 161 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN  
TI Novel isolated Lactobacillus rhamnosus polynucleotides encoding  
polypeptide with anti-infection/lactose digestion modulating activity,  
useful to improve properties of microbes used in milk-derived products  
manufacture;  
vector-mediated recombinant protein gene transfer and expression in  
host cell for use in recombinant vaccine preparation and as a  
probiotic and food-additive  
AU GLENN M; HAVUKKALA I J; LUBBERS M W; DEKKER J  
AN 2002-19581 BIOTECHDS  
PI WO 2002044383 6 Jun 2002

L85 ANSWER 4 OF 161 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN  
TI New nucleic acid sequence encoding 1-deoxy-D-xylulose 5-phosphate  
reductoisomerase from an eukaryotic source, useful for altering  
isoprenoid content and composition, and modulating disease resistance in  
plants;  
vector-mediated gene transfer and expression in host cell for  
transgenic plant construction  
AU BORONAT A; CAMPOS N; KISHORE G M  
AN 2003-06349 BIOTECHDS

PI US 2002108148 8 Aug 2002

L85 ANSWER 5 OF 161 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN  
TI New cysD, N, K, E and H genes from coryneform bacteria, useful, when over  
expressed, for increasing fermentative production of L-amino acids;  
vector plasmid pEC-XK99E-mediated recombinant protein gene transfer  
and expression in Escherichia coli for use in L-amino acid preparation  
and medicine, pharmaceutical and food industries  
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; SCHISCHKA N; BATHE B  
AN 2002-16465 BIOTECHDS  
PI DE 10136986 21 Mar 2002

L85 ANSWER 6 OF 161 HCAPLUS COPYRIGHT 2008 ACS on STN  
TI Phosphate depletion enhances bone morphogenetic protein-4 gene expression  
in a cultured mouse marrow stromal cell line ST2  
SO Biochemical and Biophysical Research Communications (2002), 299(3),  
395-399  
CODEN: BBRC99; ISSN: 0006-291X  
AU Goseki-Sone, Masae; Yamada, Asako; Hamatani, Ryoko; Mizoi, Lena; Iimura,  
Tadahiro; Ezawa, Ikuko  
AN 2002:875511 HCAPLUS  
DN 138:298639

L85 ANSWER 7 OF 161 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights  
reserved on STN DUPLICATE 2  
TI Desulfotignum phosphitoxidans sp. nov., a new marine sulfate  
reducer that oxidizes phosphite to phosphate.  
SO Archives of Microbiology, (2002) Vol. 177, No. 5, pp. 381-391.  
Refs: 72  
ISSN: 0302-8933 CODEN: AMICCW  
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Unit, 221 Longwood Ave, Boston, MA 02115, United States.  
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 416, 75870 Paris Cedex 18, France.  
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 CY United States  
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 SL English

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R: AT BE CH DE ES FR GB GR IT LI LU NL SE  
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L85 ANSWER 39 OF 161 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 21  
 AB Solution equilibrium analysis of in vitro RNA transcription has been applied to examine changes in pH, free magnesium concentration, and concentrations of all chemical ionization species as a transcription reaction proceeds. With this method, the progress of a transcription reaction can be accurately determined as a function of measured pH. In addition, it is demonstrated that this method has significant value as a tool for achieving improved understanding of the effects of varying solution conditions on the dynamics of RNA transcription. Magnesium concentration was found to be a critical factor for efficient transcription. Below 5 mM free Mg super(2+) concentration, the transcription rate and the efficiency at which nucleoside triphosphates (NTPs) are incorporated are greatly reduced. While inorganic pyrophosphate (PP sub(i)), a byproduct of the reaction, was found to directly inhibit the rate of transcription, its detrimental effects on transcription were determined to be primarily due to sequestering of magnesium. The PP sub(i) forms a precipitate with magnesium which was determined to have a molar composition of 2:1 of Mg:PP sub(i). Transcription rate and efficiency of NTP incorporation are also reduced with increasing ionic strength. It is shown that these reductions can be partially alleviated by replacing chloride with acetate anions.

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

364.83

365.67

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